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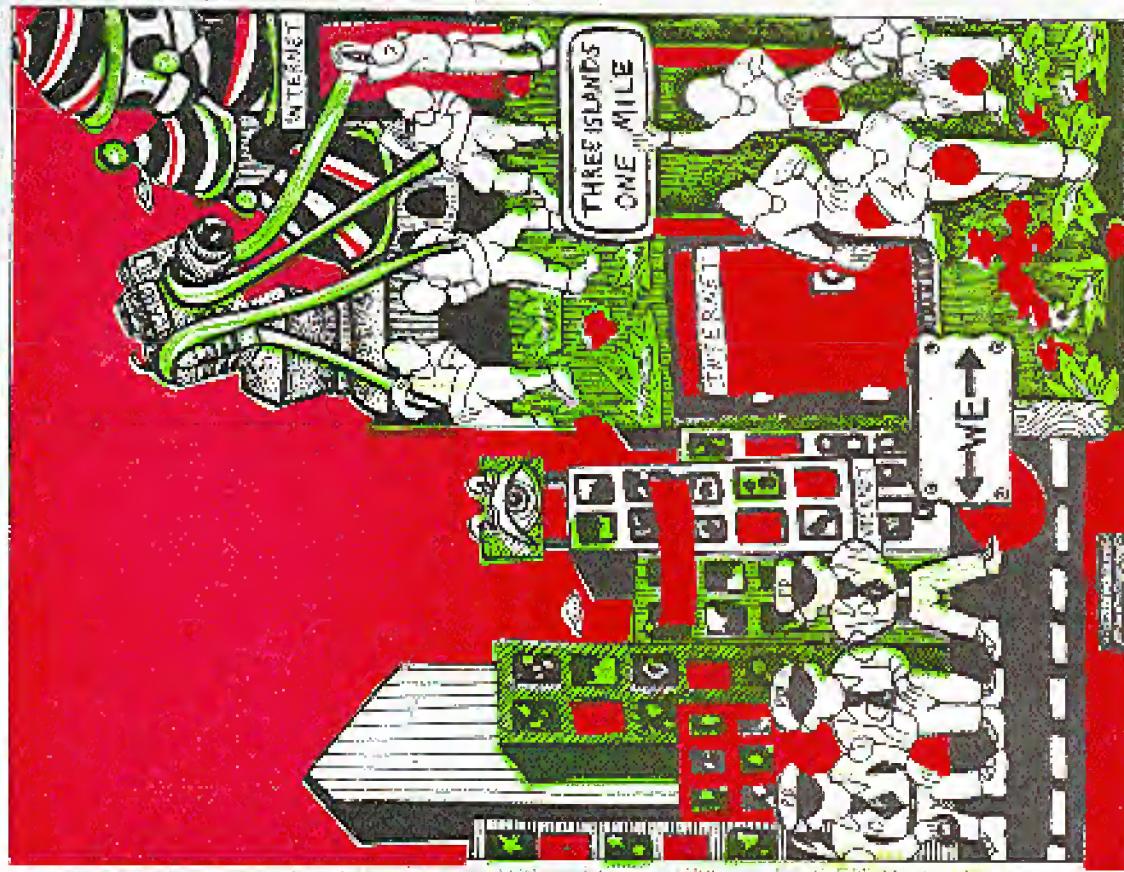
# 2600

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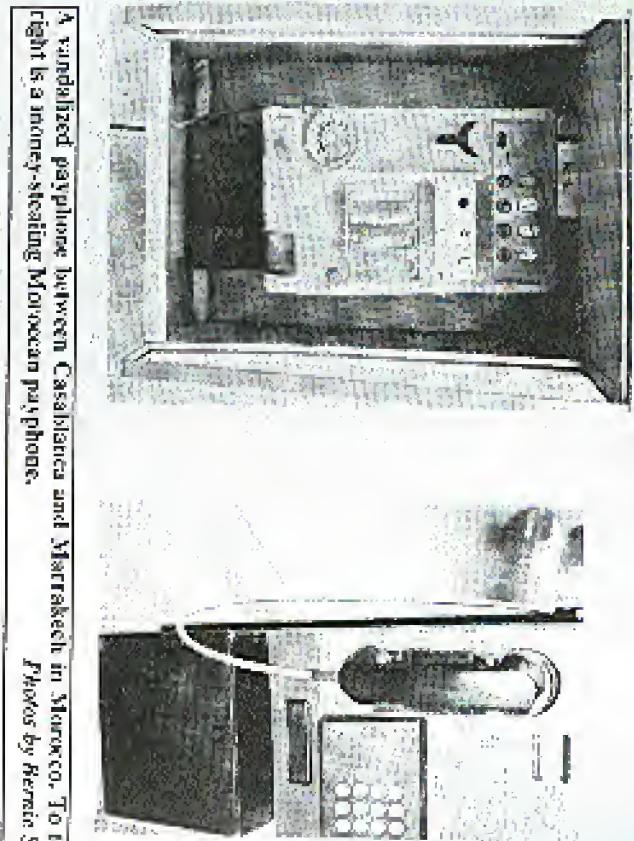
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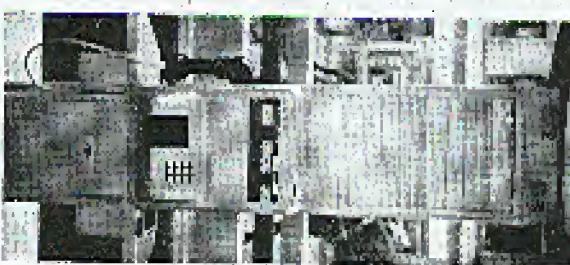
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A vanedized payphone between Casablanca and Marrakech in Morocco. To the right is an money-stealing Moroccan payphone.  
Photos by Berne S.



Belgian payphones. To the left, one that takes money. To the right, one that takes cards.  
Photos by Kingpin

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"They are satisfying their own appetite to know something that is not theirs to know."  
- Asst. District Attorney Don Ingram

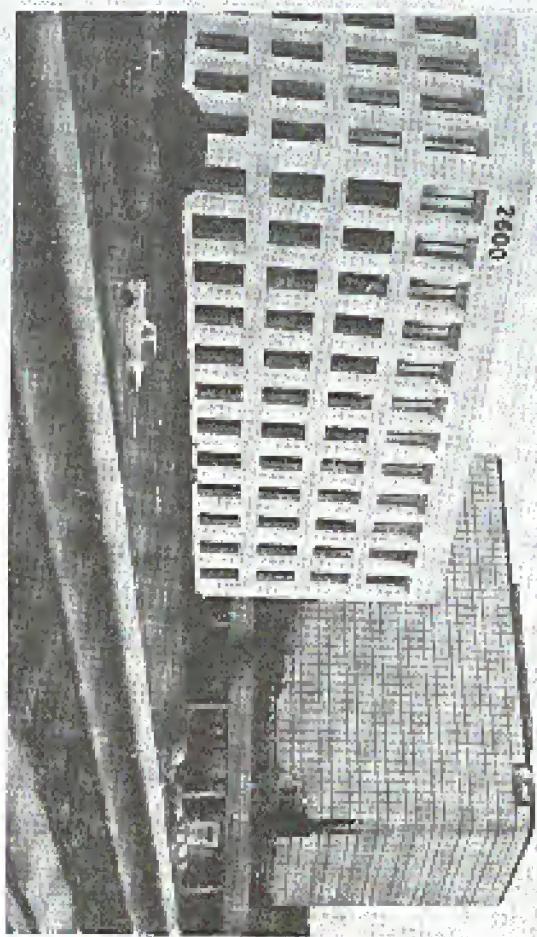
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\$2124

# 2600 CORPORATE HEADQUARTERS



The Atlanta Hacking Center. Our building may not be as big as AT&T's, but we're still able to watch everything they're doing....

## Computer Security at the

### Bureau of Prisons

The following comes from the statement of Richard J. Hutchinson, Deputy Inspector General, Office of the Inspector General before the Subcommittee on Government Information, Justice, and Agriculture of the Committee on Government Operations of the U.S. House of Representatives. It concerns computer security at the Bureau of Prisons (BOP) and focuses primarily on the SENTRY system. This took place on September 11, 1991. We thank the author who forwarded this to us.

The Bureau of Prisons operates three main computer systems:

The SENTRY system is by far the most important, most used, and most sensitive. It is used for management of the 60,000 prisoners, property management, legal reference, and the BOP nationwide electronic rail system. Over 400,000 SENTRY transactions occur every day, and all 15,000 BOP staff members are actual or potential users.

The Batch Transmission System (BTS) is a personal computer (PC) based system that accumulates financial management data at a local institution or BOP office. Data from the BTS is transmitted to the BOP Network Control Center, and then restricted to the Justice Management Division (JMD) Data Center in Rockville, Maryland for processing.

The Federal Prison Point of Sale is a PC based system, networked locally, that is used to record inmate trust fund and commissary transactions at the instant. Our audit focused on SENTRY, although the other two systems were also issues relative to the security of those two applications. We focused on SENTRY because of the importance of this system to the daily operations of BOP and because of the sensitivity of the data that is stored in and managed by that system.

Our audit work was conducted at BOP Headquarters at the Federal Correctional Center in Sandstone, Minnesota; at the United States Penitentiary in Leavenworth, Kansas; and at the Medical Center in

Springfield, Missouri. Additional survey work was also done at the Mid-Atlantic Correctional Center in Chicago, Illinois.

With that background, set the summarize the key deficiencies that we found and what BOP has done in response.

The Network Control Center (NCC) is the critical train stem that connects data in

BOP financial data) and the SENTRY system depend on the effective operation of the NCC. We recommended that a Risk Analysis and Contingency Plan be prepared for this important facility. To its credit, BOP has chosen not to gravel over whether the NCC meets the technical parameters of the DOJ Order requiring such reviews. Instead, BOP has acknowledged the value of such planning and already has awarded a contract for the work, which is scheduled to be completed in about six months. Once these are completed, they will be reviewed by both our auditors and by the Department's Security Office.

We found that while BOP uses passwords to limit access to SENTRY terminals, it does not use them to the extent required by DOJ order, nor does it presently provide separate security at an adequate audit trail. BOP relies on its control of access to offices that contain PCs, and on a terminal-based hardware (used by all workers in the office or department) to protect against unauthorized access to its computers. This is not adequate. BOP needs to assign a specific password to every individual authorized to access the SENTRY system, so that the data applications each individual may access and how it may be accessed (i.e., read only, or read and enter data), and it needs to establish password lifetimes (i.e., periodic changes to passwords) by doing so, BOP will tighten control over access to SENTRY, will establish an audit trail that assures individual accountability

for transactions performed in SENTRY and that will aid in the detection of unauthorized attempt. Although BOP thought it might qualify for an exemption from this requirement, its request was denied on August 20, 1991, and BOP has advised my office that it will implement a password system that conforms to our recommendations by December 31, 1991.

Like some other components in the Department, BOP is deficient in assuring that background investigations for new hires and re-investigations every five years for existing employees are conducted on a timely basis. We found that 447 employees in our survey (which totaled 1,684 employees) did not have completed initial background investigations, including 261 employees who had been employed for over 8 years and 24 who had been employed for over 10 years. An additional 1,624 had not been re-investigated within five years, as required; 475 of these had not been re-investigated in over 10 years.

We are satisfied that the Department does indeed have adequate policies in place with regard to computer security. However, much remains to be done. We have directed the Department's components to improve the security of sensitive information processed or stored in departmental computer systems. As a result, JMD and the Offices, Boards, Divisions, and Bureaus are taking steps to further reduce security weaknesses. In July, the Department held an executive briefing regarding computer security awareness for all Department component heads. This executive briefing complements a series of security awareness training sessions already conducted for other employee groups (e.g., managers, and users) throughout the Department in compliance with the Computer Security Act of 1987.

In addition to computer security training, we have taken positive steps on a number of other fronts. These include the following:

- Security at the Rockville Data Center. As the Committee is aware, the General Accounting Office identified a number of physical security weaknesses at the

Rockville, Maryland and Dallas, Texas — which operate with compatible equipment and the same operating systems, the Department has been well positioned to create an operational continuity backup capacity for its components. We are now in the early stages of making that capacity a reality. This will require a balancing of equipment and operations between the two centers; a reconfiguration of the telecommunications network between Rockville, Dallas, and our field components; and a set of final determinations by each of our components regarding which systems require immediate backup. This process should take about two years and will mean the Department of Justice into the front ranks of the government upon completion.

In addition, we have developed a security compliance review program involving departmental components. These reviews cover automated data processing, telecommunications, physical, document, and personnel security. If the component being reviewed has an ADP system designated as "sensitive," the review also covers the implementation of the computer security plan (as required by the Computer Security Act of 1987) and the accuracy of the computer systems security plan. Currently, the Department has 55 systems so designated. As staffing levels and work priorities have permitted, reviews have been conducted since May 1990.

JMD has conducted thirteen computer security reviews in four components (JMD, Tax Division, U.S. Attorneys, Bureau of Prisons). Six reviews were conducted in BOP. (A representative sample of locations was chosen: the Central Office, a regional office, three correctional facilities, and the Center Training Center.) The BOP has prepared seven computer system security plans covering the seven systems that contain sensitive information. They are: Batch Transmission System, Federal

Prison Point of Sale System, SENTRY, Inmate Telephone System, Vehicle Tracking System, BOP Net, and Automated Inmate Management System. It should be noted that four of these systems are operational while three are under development. The SENTRY system was selected for review because it is BOP's primary mission support system which includes inmate related information and management information sub-systems.

SENTRY is a distributed system and serves many diverse users. Over 5,000 SENTRY terminals are now installed nationwide in over 85 correctional facilities in the U.S. and selected BOP Community Program offices, U.S. Parole Commission offices, U.S. Attorney offices, U.S. Probation offices, and U.S. Marshals' offices. On any given day, over 300,000 transactions are processed in response to a variety of requests for information. The reviews validated information in all sections of the computer security plan. As a result of these reviews, the following major weaknesses have been identified: A formal formal contingency plan has not been developed; user identification and unique passwords are not used; and inadequate computer security awareness training and no formal computer security awareness training for new employees and returning current employees exist.

Other findings included concerns regarding interruptible power supply, user session audit trails, and scheduling password changes.

These issues have been presented to the Bureau of Prisons in discussion and will shortly be provided in formal draft for comment.

Earlier I stated that one of the findings of the computer security review was that BOP had not completed its risk analyses. This issue has been addressed in BOP's response. A contract has been signed for the development of a business continuity plan which will include the completion of risk analyses. Another finding of the computer security review was that user identification and unique passwords are not used. In response to our direction, the Bureau has now agreed to provide unique user identification and passwords for SENTRY users by December 31, 1991.

The Bureau has over 20,000 employees who must be trained in accordance with the Computer Security Act. In July, BOP issued guidelines which implemented computer security training.

As a final comment, we would only observe that the Department takes its computer security responsibility very seriously. We believe we have an effective program. Only by doing everything within our power to safeguard information can we be reasonably assured that the Departments and the public's interests will continue to be well protected.

### Data Components for SENTRY Data Base System

Component	Location	System	Function
Central Office	Washington, D.C.	Central Office	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
Regional Office	Atlanta, Chicago, Denver, Houston, Los Angeles, New York, San Francisco, Seattle, St. Louis, Washington, D.C.	Regional Office	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
Prison	Alaska, Arizona, California, Colorado, Florida, Georgia, Hawaii, Illinois, Indiana, Iowa, Kansas, Louisiana, Maryland, Massachusetts, Michigan, Minnesota, Missouri, Nebraska, Nevada, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Texas, Utah, Virginia, Washington, D.C., Wisconsin, Wyoming.	Inmate Management System	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
Office of the General Counsel	Washington, D.C.	General Counsel	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
Office of the Tax Division	Washington, D.C.	Tax Division	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
U.S. Attorneys	Washington, D.C.	U.S. Attorneys	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
Center Training Center	Washington, D.C.	Center Training Center	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
Vehicle Tracking System	Washington, D.C.	Vehicle Tracking System	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.
BOP Net	Washington, D.C.	BOP Net	Central processing, data entry, data storage, data retrieval, data transmission, data analysis, data reporting.

## stuff you should be interested in

### Dutch Hacker Raids

by Felipe Rooskens and Rolf Giengelup

AMSTERDAM - At 10:30 on the morning of Monday the 27th of January 1992 Dutch police searched the homes of two hackers. In the city of Rijswijk, the parental home of the 16-year old student H.W. was searched and Nurien that same happened in the parental home of R.S., a Computer Science engineer, apt. 23. Both were arrested and taken into custody. At both sites, members of the Amsterdam Police (Plus Team for computer crime) were present, alongside local police officers and representatives of the national organization CRI (Criminal Investigations Agency). Both suspects were transferred to Amsterdam. The brother of one of the suspects was told they would receive no visits or mail. The two remained in jail for more than one week.

#### The Charges

A break-in supposedly occurred at the bronzing workstation at the VU University in Amsterdam. This UNIX system running on a SUN station (internal Address 130.30.64.3) has been taken off the net at least for the duration of the investigation. What happened to the actual damage is unknown at this time.

The formal charges are: property destruction, and vandalism. The police justify the forged part by claiming that files on the system have been changed. They say the vandalism charge is valid because the system had to be taken off the net for a period of time to investigate the extent of the damage. By pretending to be regular users or even system management, the hackers committed racketeering, the police say.

Both suspects, according to the Dutch police, have made a full statement. According to a police spokesman the motive was "financial hobbyism." Spokeswoman Sijster for the CRI speaks of the "kick of seeing how far you can get."

#### "Damage"

According to J. Rentkema, head of the physics faculty at the VU, the university is considering filing a civil lawsuit against the

suspects. "The system was contaminated because of their doing and had to be cleaned up. This cost months of labor and \$0,000 guilders (about US\$ 30,000). Registered users pay for access to the system and these hackers did not. Result: lots of thousands of guilders in damages." Rentkema also speaks of a "moral disadvantage." The university lost trust from others on the network. Rentkema claims the university runs the risk of being targeted from some networks.

Rentkema also claims the hackers were discovered almost immediately after the break-ins and were monitored at all times. This means all the damages had occurred under the watchful eyes of the supervisors. All this time, no action was taken to kick the hackers off the system. According to Rentkema, all systems at the VU were protected according to guidelines as laid down by CIBT and SurfNet BV (SurfNet is the company that runs most of the inter-university data traffic in the Netherlands).

#### What Really Happened?

The charge of "adapting system software" could mean that the hackers installed back doors to secure access to the system, or to the user level, even if passwords were changed. New versions of telnet (ip, rlogin, and other programs) could have been compiled to log access to the networks.

What really happened is anybody's guess. One point is that even the CRI acknowledges that there were no "bad" intentions on the part of the hackers. They were there to look around and play with the networks.

#### About Hacking in General

In the past we have warned that new laws against computer crime can only be used against harmless hackers. Against the real computer criminals a law is useless because they will probably remain untraceable. The CRI regularly goes on the record to say that hackers are not the top priority in computer crime investigation. It seems that hackers are an easy target when "something has to be done."

And "something had to be done." The pressure from especially the U.S. to do something about the "hacking problem" was so huge that it would have been almost humiliating

for the Dutch not to respond. It seems as if the areas are mainly there to save the American fear of the overseas hacker-vandals.

A Closer Look at the Charges and Damages

The VU has accepted the idea that system security on their system was only needed because of these two hackers. All costs made in relation to system security are billed to the two people that just happened to get in. For people that like to see hacking in terms of analogy: It is like walking into a building full of students, looking around, and then getting the bill for the new alarm system that they had to install just for you.

Systems security is a normal part of the job task of every system administrator. Not just because the system has to be protected from break-ins from the outside, but also because the owners themselves need to be protected from each other. The "booted" management has neglected some of their duties, and now they still have to secure their system. This is new damages done, it's a work-long overture.

If restoring backups, cross tests of thousands of problems, something is terribly wrong at the VU. Every systems manager that uses a legal copy of the operating system has a distribution version within easy reach.

Monitors of previous labor following the break-ins in the system: "It would have been much easier and cheaper to deny the bad access to the system, shortly after they had been discovered. "Most damage" by break-ins in other systems would have been small. The VU chose to call the police and have the hackers arrested in the system." The costs of such an operation cannot be blamed to the hackers.

Using luring and racketeering makes one wonder if the (and the District Attorney here) can come up with a better motive than "they did it for kicks." If there is no necessity or material gain involved, it is questionable at best if these allegations will stand up in court.

As far as the vandalism goes: these have been numerous cases of system management overreacting in a case like this. A well-trained system manager can protect a system without making it impossible to normal users. Again, the hackers have to pay for the apparent incompetence of system management.

This does not mean that having hackers on

systems, you should not do it. This is not just our statement, it is the written policy of many networking organizations. One more endpoint: It's like installing a new phone switch that allows direct dial to all employees. If you get a call and hang it up, the next day people will call in. If these people do damage, you should prosecute them, but not for the costs of making after them and doing your security right.

#### Consequences of a Conviction

If these suspects are convicted, the VU has a good chance of winning the civil case. Furthermore, this case is of interest to all other hackers in Holland. Their hobby is suddenly a crime and many hackers will cease to hack.

Others will go "underground," which is not beneficial to the positive interaction between hackers and system managers or the relatively openness in the Dutch computer security world.

#### Public Systems

If you are not a student at some big university or work for a large corporation, there is no real way for you to get on the internet. As long as there is the way for some people to connect to the net, there will be people that hack their way in. Whether this is good or bad is besides the point. If there is no law to stop it, some hackers will become the criminals that governments want them to be.

#### More AT&T Confusion

Because of a coding error last fall, AT&T mistakenly routed calls made to 800-555-5555 to 900-555-5555. This resulted in people all over the country being billed premium rates for what appeared to be a toll-free call. It's also resulted in an ethical question: should people be forced to pay when they know they're being connected to a 900 number by mistake, even though they dialed an 800 number? To us, the answer is pretty clear: AT&T should take the full blame here. It's their network and if they can't manage it properly, customers shouldn't have to pay a penalty. If you're able to find an 800 number that routes to a 900 number, you haven't committed a crime. 800 numbers are not fine and should remain that way. AT&T is now also

paying a penalty that "customers" 800 numbers to 900 numbers. In other words, a customer can





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• ...index, unless everything else.					
• <b>index</b>					
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7, 19, 14, 3, 9, 6, 9, 5, 2, 2, 8, 3, 10, 12, 4, 5,					
4, 2, 11, 10, 18, 7, 6, 15, 8, 10, 5, 6, 1, 9, 14, 5,					
8, 11, 16, 5, 2, 8, 12, 2, 7, 4, 10, 14, 9,					
18, 6, 4, 8, 5, 15, 9, 0, 11, 1, 2, 10, 5, 10, 24, 5,					
1, 15, 0, 6, 10, 1, 16, 8, 8, 5, 1, 12, 1, 2, 14,					
210, 10, 0, 6, 3, 0, 7, 4, 0, 14, 2, 11, 5, 2, 12,					
13, 13, 2, 9, 2, 4, 13, 1, 6, 0, 15, 2, 0, 3, 9, 3, 6,					
4, 2, 11, 10, 18, 7, 6, 15, 8, 10, 5, 6, 1, 9, 14, 5,					
11, 8, 12, 5, 11, 4, 2, 11, 8, 15, 0, 8, 16, 8, 2,					
12, 1, 10, 15, 3, 2, 8, 6, 0, 13, 2, 4, 1, 7, 5, 11,					
10, 18, 4, 2, 1, 12, 5, 6, 1, 13, 3, 4, 9, 1, 2, 8,					
6, 11, 16, 5, 2, 8, 1, 10, 6, 0, 5, 2, 0,					
6, 11, 16, 5, 1, 4, 6, 7, 9, 5, 0, 15, 2, 2, 12,					
32, 1, 2, 4, 5, 15, 1, 12, 2, 214, 6, 0, 12, 7,					
1, 15, 8, 1, 8, 10, 3, 7, 4, 16, 5, 6, 10, 0, 4, 3, 2,					
7, 11, 4, 1, 9, 12, 14, 2, 0, 8, 10, 11, 6, 3, 5, 8,					
2, 1, 4, 7, 4, 10, 8, 18, 16, 12, 8, 0, 3, 5, 8, 19,					
13, 0,					
* <b>l</b> is a <b>precondition</b> on the selected combination					
* of the current <b>LoadKey</b> .					
* <b>l</b>					
short	R[1] - 1				
16, 17, 2, 1					
23, 32, 28, 15,					
1, 15, 23, 25,					
5, 18, 31, 10,					
2, 18, 24, 4,					
82, 27, 3, 9,					
12, 15, 26, 6,					
22, 11, 42, 5,					
13,					
* The <b>Blocksize</b> function.					
* For some reason, they give a <b>long</b> ...					
* ...index, unless everything else.					
• <b>index</b>					
char	8192*64/-1				
14, 4, 18, 2, 215, 18, 3, 16, 16, 5, 3, 0, 7,					
0, 15, 1, 414, 2, 2, 5, 15, 5, 12, 21, 5, 5, 3, 8,					
4, 114, 8, 18, 5, 210, 95, 3, 7, 3, 10, 5,					
15, 12, 8, 2, 4, 9, 1, 3, 5, 1, 214, 3, 0, 6, 13,					
16, 1, 174, 8, 19, 3, 4, 2, 9, 2, 218, 12, 5, 5, 10,					
0, 9, 1, 17, 2, 2, 5, 15, 5, 2, 2, 15,					
19, 8, 10, 4, 3, 15, 4, 2, 11, 8, 7, 0, 6, 14, 9,					
7, 19, 14, 3, 9, 6, 9, 5, 2, 2, 8, 3, 10, 12, 4, 5,					
4, 2, 11, 10, 18, 7, 6, 15, 8, 10, 5, 6, 1, 9, 14, 5,					
8, 11, 16, 5, 2, 8, 12, 2, 7, 4, 10, 14, 9,					
18, 6, 4, 8, 5, 15, 9, 0, 11, 1, 2, 10, 5, 10, 24, 5,					
1, 15, 0, 6, 10, 1, 16, 8, 8, 5, 1, 12, 1, 2, 14,					
210, 10, 0, 6, 3, 0, 7, 4, 0, 14, 2, 11, 5, 2, 12,					
13, 13, 2, 9, 2, 4, 13, 1, 6, 0, 15, 2, 0, 3, 9, 3, 6,					
4, 2, 11, 10, 18, 7, 6, 15, 8, 10, 5, 6, 1, 9, 14, 5,					
11, 8, 12, 5, 11, 4, 2, 11, 8, 15, 0, 8, 16, 8, 2,					
12, 1, 10, 15, 3, 2, 8, 6, 0, 13, 2, 4, 1, 7, 5, 11,					
10, 18, 4, 2, 1, 12, 5, 6, 1, 13, 3, 4, 9, 1, 2, 8,					
6, 11, 16, 5, 2, 8, 1, 10, 6, 0, 5, 2, 0,					
6, 11, 16, 5, 1, 4, 6, 7, 9, 5, 0, 15, 2, 2, 12,					
32, 1, 2, 4, 5, 15, 1, 12, 2, 214, 6, 0, 12, 7,					
1, 15, 8, 1, 8, 10, 3, 7, 4, 16, 5, 6, 10, 0, 4, 3, 2,					
7, 11, 4, 1, 9, 12, 14, 2, 0, 8, 10, 11, 6, 3, 5, 8,					
2, 1, 4, 7, 4, 10, 8, 18, 16, 12, 8, 0, 3, 5, 8, 19,					
13, 0,					
* <b>l</b> is a <b>precondition</b> on the selected combination					
* of the current <b>LoadKey</b> .					
* <b>l</b>					
short	R[1] - 1				
16, 17, 2, 1					
23, 32, 28, 15,					
1, 15, 23, 25,					
5, 18, 31, 10,					
2, 18, 24, 4,					
82, 27, 3, 9,					
12, 15, 26, 6,					
22, 11, 42, 5,					
13,					
* The <b>Blocksize</b> function.					
* For some reason, they give a <b>long</b> ...					
* ...index, unless everything else.					
• <b>index</b>					
char	8192*64/-1				
14, 4, 18, 2, 215, 18, 3, 16, 16, 5, 3, 0, 7,					
0, 15, 1, 414, 2, 2, 5, 15, 5, 12, 21, 5, 5, 3, 8,					
4, 114, 8, 18, 5, 210, 95, 3, 7, 3, 10, 5,					
15, 12, 8, 2, 4, 9, 1, 3, 5, 1, 214, 3, 0, 6, 13,					
16, 1, 174, 8, 19, 3, 4, 2, 9, 2, 218, 12, 5, 5, 10,					
0, 9, 1, 17, 2, 2, 5, 15, 5, 2, 2, 15,					
19, 8, 10, 4, 3, 15, 4, 2, 11, 8, 7, 0, 6, 14, 9,					

# BIRTH OF A LOW TECHNOLOGY HACKER

by The Roving Eye

I hope by this article that you can see how a hacker is born in a totally different culture than yours.

I was born on the coldest day in North India in 46 years, though I do not think that that was the true birth of the hacker that I call myself. I was born into a poor family and in place of the usual inclination for crime that goes with such a background, I was instead given three things: a permanent dark tan, a curious brain and a desire to beat the system with that curious brain. It was this

combination of the last two that gave me the hacker spirit that I share with you, whereas everything else about me is very different. All my life I have thought of ways to defeat authority and power, but always within the framework of their own system. When I was little I always found loopholes in my parents' statements and got away with whatever I wanted. At the age of eight I was already experimenting with radios, trying to make magnets and so on. When I was 15 I learned to read circuit diagrams and I started making my own ten bit binary sorting machine using only simple switches, small bulbs, and a battery. My parents were impressed and so I got my first book allowance. For the equivalent of a dolla a month, I could get whatever Soviet books I wanted.

But that was not enough for me. I started my own library with books that my older friends donated, and by twelve I had a catalogued library of four hundred books. I now found that because of my good knowledge of things, I could often get away with all sorts of things. I soon learned to manipulate the water meter so that I could not move at all and thus the company would charge us by the flat rate. By experimenting I got the electric meter to run slowly when I stuck a magnet to the side. The technology was so simple that even I could defeat it at the age of fifteen. But India is a low tech country. I had not seen a credit card or a touchtone phone or even been to an airport before I came to the United States. So I had to find other avenues for my talents.

At thirteen my parents were sick of my tricks and sent me away to boarding school. It was there that I found the real inspiration. First and foremost I defeated the system to switch the lights out at lights out time. By putting a switch in parallel, I could switch the lights on from inside the dormitory, after the teacher had put them out from outside. My father used to work in research then. Using the excuse of a science project, I got him to get me a photocell. Using this, we put a trip on the main dorm door to warn us when the master came. Finally, we put a power relay to the lights with input from the radio, and we had our own mini disco. Soon I was unstoppable.

One adventure led to another. The school had a few BBC Acorn Electron computers which we used to 'become familiar with computers.' Actually they were no good for this or any purpose. The thing we did use them for was to get to our billing records. The student computer room was separated from the school computer room by only a

sorts of things. I soon learned to

manipulate the water meter so that I could not move at all and thus the company would charge us by the flat rate. By experimenting I got the electric meter to run slowly when I stuck a magnet to the side. The

grill, to save the air conditioning costs. One night two friends and I managed to hook up an IBM keyboard and monitor to the school system. Then we placed this keyboard as that of one of the Acorn Electrons, so no one would suspect anything. Even when a teacher walked by, he only commented on our efforts to educate ourselves.

It was not long before we had used the accountant's daughter's name as the password to break in. We did not change anything, though, but the thrill of being able to was so great. Soon my friend was able to acquire a "keyboard tap." This is a great device that lets you put two keyboards and monitors on a computer, and switch between them by flipping a switch. I am really surprised that in the mass of tangled wires that only the fellow from the company understood, no one ever found this tap device for a full semester.

My friend was rich and had a computer at home, and he did all the work, and my job was merely to be a lookout, keep tying passwords, or something like that. I had no clue as to what my friends were doing most of the time, because they already knew about all this stuff, and they never had time to explain. But I tried to learn the system on my own. Whenever I had time, I would be back at the computer. Not, as I look back now, that I did much good. Without the manuals I just wasted most of my time.

You must understand that in our sort of technological setting, this was quite an achievement for all of us. We looked at our grades, saw other people's reports and so on quite a bit, all the time right under the nose of the people. And because of the thrill the whole thing gave me, a true hacker was born.

grill, to save the air conditioning costs. One night two friends and I managed to hook up an IBM keyboard and monitor to the school system. Then we placed this keyboard as that of one of the Acorn Electrons, so no one would suspect anything. Even when a teacher walked by, he only commented on our efforts to educate ourselves.

Since then I managed to tap phones, and even hook up my own homemade intercom to the new internal phone system that the school got when some big alumnus donated us some money. The crowning glory arrived when I came to America. Not fully realizing what the potential of someone with a need and zeal can achieve, the corporations are quite lax in this direction. But I have found that the best answers to beating the system are the simplest. The "phone does not work correctly" method of fooling the operator, especially with my accent, has been the most effective for me. And as for breaking into the systems of our school, anyone with a bit of sweet-talking skills can find out anything. Not to mention the advantages one can reap by being aware of the tremendous amounts of money, things, information, and so on that Uncle Sam and Cousin Big Blue or the Fed are ready to give out for free, when presented with the right story. I cannot lay claim to very great technical knowledge or achievements. "But the spirit is the thing," my mother says. So I guess as a low tech hacker I have definitely made my mark.

My life has become quite different as a result of seeing my friends access our billing accounts. Being a socially insecure person, I have built a digital wall against society. By being a sort of apart from them, I am able to understand people much better. Thus I am now trying to hack the ultimate machine: the human brain. I have found that most often people are much more vulnerable to manipulation in undesired ways than machines. Though I must admit that living around with the megamonsters of this technocratic society is a lot more fun...

# mobile frequencies

by Esper

Cellular phone phreaking is an area that remains, for the most part, uncharted (no pun intended). Let me rephrase that - it remains, for the most part, unreported within the hacker/phonebreak community. To many aspiring phreakers and seasoned veterans, cellular phone systems are pretty much uncharted waters, ready to be sailed. Unfortunately, those who may have discovered new ways to utilize cellular phones are being tight-lipped about it, or are just researching it a little further before coming out with ways to do it and telling others, such as in 2600. Hopefully, we will see some articles about this in future issues. In the past, there was one such article concerning mobile phones (not to be confused with cellular), which leads into something creative. Bear with me.

Now for a trip down memory lane. For those who are fortunate enough to keep up with back issues, you might remember there was an article some time ago detailing mobile phone theory and construction by The Researcher (2600 Magazine, Vol. 3, Number 4, April 1986). Details were given on how to construct one using a cassette tape recorder, radio scanner, a low-power transmitter, and a mobile phone dialer (build your own). In the article, the author suggests building a Wein-Bridge oscillator to generate red box tones. For this, it might be easier to build a red box from a Radio-Shack tone dialer (my most recent conversion is highlighted in the Autumn 1991 issue of 2600). I won't get into the gory details of the article, so you might have to find a copy of it somewhere or buy the back issues. Again, bear with me.

In the mobile phone article, it tells how you should set the transmitter to the corresponding mobile frequency, send the ID sequence that you taped with the cassette recorder, and use the dialer to call "one of those special 800 numbers and whistle off with 2600 hertz, then MF to anywhere in the world." While I'm not sure how easily Ma Bell can nail someone blue boxing over a mobile phone, I and many others know how bad an idea of blue boxing over regular lines can be. In any case, this is an idea for phreakers and hackers alike.

Trouble is, finding mobile phone frequencies is kind of a hit and miss deal

with a scanner. There are lots of bands to cover, and one might only have a vague idea as to what frequencies are where. If you manage to hit upon an unused frequency, you'll hear that all-too-familiar 2600 hertz tone heading down the line until someone makes a call. Then you'll hear the D sequence, the number being dialed, and so on and so forth! You'll hear a call! To make your lives a little easier, here's a list of mobile phone channels used by the phone companies in major cities across the nation. If there's more than one frequency used in one three-digit number (I've seen 8-8), I'll list them like this: **048-XXXX-XXXX** (XXXXXX-XXXX-XXXX). My would thus be a valid frequency for that city.

**Atlanta:** 152, 1510, 540, 600, 600, 600, 750, 810; **Baltimore:** 152, 1510, 630, 750, 810, 454, 450, 500, 525, 550, 600

**Chicago:** 152, 1510, 510, 510, 630, 630,

**Dallas:** 152, 1510, 620, 680, 750, 810, 454

450, 475, 550, 600, 625, 650

**Denver:** 152, 1510, 540, 600, 630, 680, 750, 780, 810, 454, 475, 400, 425, 450, 475, 500,

525, 550, 575, 600, 625, 650

**Detroit:** 152, 1510, 600, 630, 680, 730, 454, 475, 525, 575, 625

**Houston:** 152, 1510, 630, 720, 750, 810, 454,

470, 475, 525, 575, 600

**Indiansapolis:** 152, 1510, 640, 630, 680, 750,

810, 454, 475, 400, 425, 475, 500, 525, 550,

600

**Kansas City:** 152, 1510, 540, 630, 680, 750,

780, 454, 475, 425, 450, 475, 550, 680

**Las Vegas:** 152, 1510, 540, 570, 630, 680, 600,

720, 750, 780, 454, 475, 425, 450, 500, 550,

575, 625

**Miami:** 152, 1510, 570, 600, 630, 680, 720,

750, 780, 454, 475, 400, 425, 450, 500, 550,

600

**Milwaukee:** 152, 1510, 570, 600, 630, 720,

780, 454, 475, 600

**Minneapolis/St. Paul:** 152, 1510, 570, 630,

650, 780, 810, 454, 475, 425, 450, 475, 525, 600,

625

**Nashville:** 152, 1510, 570, 630, 600, 780,

810, 454, 475, 450, 475, 525, 600, 625

**Newark, NJ:** 152, 1540, 750, 810, 454,

425, 475, 575

**New Orleans:** 152, 1510, 630, 680, 810;

**New York City:** 152, 1510, 570, 630, 680,

720, 780, 454, 475, 450, 525, 550, 625, 650

770, 780, 810, 454, 475, 400, 425, 475,

500, 600, 650

**Philadelphia:** 152, 1510, 540, 630, 680, 750,

810, 454, 475, 500, 550, 575, 600,

**Phoenix:** 152, 1540, 570, 600, 630, 680, 720,

750, 780, 810, 454, 475, 525, 550, 600,

**Pittsburgh:** 152, 1510, 630, 680, 750, 810,

454, 475, 500, 525, 550, 600

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Cincinnati:** 152, 1510, 630, 750

**Cleveland:** 152, 1510, 630, 680, 750,

750, 810

**Des Moines:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 152, 1510, 540, 630, 680, 810,

454, 450, 500

**Washington:** 152, 1510, 600, 630, 680, 720,

750, 780, 810, 454, 475, 425, 475, 525, 550,

575, 625, 650

**St. Louis:** 152, 1510, 570, 630, 680, 680,

750, 454, 475, 425, 450, 450, 550

**Salt Lake City:** 152, 1510, 570, 630, 680,

750, 810

**Seattle:** 152, 1510, 570, 630, 680, 810,

454, 450, 500

**San Francisco:** 152, 1510, 540, 630,

680, 810

**Seattle:** 1

(212), (516), (718), (914) \$3.50 PER CALL

# 540-3383 APARTMENT FOR RENT

## Simplex Update and Corrections

Four superfluous codes were printed in the list of possible Simplex lock combinations on page 12 of the Autumn 1991 issue. The codes (51), (52), (53) and (54) are unnecessary because they are already included in the list under a different guise. The code (51), for instance, is the same as (15) because the pushbuttons are pressed together. Subsequently, this brings the total number of possible combinations down from 1085 to 1081.

advice on page 11 and record the Simplex codes onto cassette. Using speech synthesis software on an Amiga 2000, we programmed the machine to do all the dirty work. The speaking rate of the voice as well as the pauses between the codes were carefully adjusted so that the approximate running time is 75 minutes. In the time that it takes you to listen to this cassette, you could be in any Simplex lock.

An error was also made on page 45 regarding the total number of Group D combinations. The number should be 541, not 451.

If you'd like to see just how easy it really is, send us \$7.50 and we'll send you a cassette with all of the codes! The address is 2600, PO Box 752, Middle Island, NY 11953.

## USPS Hacking Corrections

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The correct POSITION for 1953-4751, our zip code.

As many of you wrote to tell us, the graphic POSTNET examples that appear on pages 32 and 35 are incorrect.

To prevent this heinous error from ever occurring again, we now use one of two programs to print POSTNET's. One program is in BASIC while the other is in C. Both

BY PUTTING THESE SIGNS ON TELEPHONE POLES, THE PEOPLE BEHIND THIS SCAM STAND A GOOD CHANCE OF SNAGGING A FEW UNSUSPECTING CLODS WHO CAN'T READ THE FINE PRINT AS THEY DRIVE BY.

## POSTNET PROGRAMS

EASIER WRITING

7. open the private port 7  
8. (printer -> open(PRINTER\_PORT,  
Q\_WRONG?)) == 111  
print(); Error opening

卷之三







used for a file is subordinate to it. It would be proof of strange behavior only if data was misusing across different logical or physical drives.

I don't know enough about Wordstar to know for sure if it manages temporary files, but assuming that it does, it's conceivable that all of the documents being worked on by Wordstar is batched, and while cleaning up it deletes the temporary files. (If Wordstar is started with a blank MS-DOS disk for disk space for STARCH-DAT, it gets this disk area that was already freed up (this area can vary depending on MS-DOS version) and whether the hard disk has had all of its area freed since it was last booted up, which naturally contains all the junk from the Wordstar session.) I consider this a much more plausible scenario than Big-6's assertion that this proves that Wordstar is reading data out of Wordstar document files.

If Big-6 wants to prove anything here, he should use Norton Utilities or some equivalent to overview all unused disk sectors and then see if Wordstar puts anything into STARCH-DAT. Or he should check the sectors that will be allocated for the next file opened both before and after Wordstar is started, to see what Wordstar changes.

As for the names of computers such as AMIGA, EIGEN and RAKER, I FGA L showing up on a Wordstar mailing list, he absolutely certainly wasn't being malicious, but no one is going to be able to figure out what he was doing. I FGA L is a well-known computer magazine, and I FGA L was most interesting. I'm still in the process of getting to know my computer (an Apple IIe) and I FGA L is the first computer I've had since I got my first computer, and most of them just had no pay-per-use date.

Wordstar magazine might have been a lot of fun, but I don't know if I'll ever get back into it. I still have my old computer manual, and personal debts to friends and family, but I don't have any old computer, and most of them just had no pay-per-use date.

Wordstar magazine might have been a lot of fun, but I don't know if I'll ever get back into it. I still have my old computer manual, and personal debts to friends and family, but I don't have any old computer, and most of them just had no pay-per-use date.

John Radell, Boston, MA

If it were our position that even if Wordstar was doing nothing wrong, infringing users are exposing their personal privacy to outside entities that intercept their calls, then do you deserve longer prison time? We hope this rationale is enough to make most people think.

## Reading ANI

Dear 600:

I have a Series 800 line. I called a Sprint representative to ask about Caller ID. She didn't know about 300, but she did with the proper technical people. She very helpfully got back to me the next day. She said that the Caller ID is generally available to their large volume users but the digital phones are not yet to the phone \$300 user test. Next I bought a Series Caller ID unit - an AT&T model for \$199.95 with a telephone

offered by voice mail order places in the back of electronics catalogues magazine. I had two Series 800 parts of the same call on the \$300 line. See LCD screen on the Caller ID unit remained blank.

Appendix the local echo when Series 800 (version 1.0) the information between rings or over time other than set, even on the \$300 line. My 800 number is registered onto my home phone so it's actually related to Sprint before somewhere in the controls of Nebraska to Kansas.

Year special tracking since was very informative.

You can mail standard size letters of just the one page with my postage denomination value - even cancellation stamp - and they'll almost always go through. Just make sure they are addressed neatly with the zip code written clearly in red. Back address and return address on the back mailing. Like a driving one mile sign only on the back mailing.

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by Gerald Walter E. Kurtz

75 Clicks from the bridge

Central in Las Vegas has Caller ID, along with several other features recently added to its custom call line features. The local system has a privacy feature which can be permanently added to a phone line by the phone company (and it can't be deactivated without calling the phone company, which may be a problem if you try to call someone with Caller ID Block). To call someone with Caller ID Block, dialing \*67. The permanent address is only available for residential lines, and every customer gets the one time feature. The following features (and codes) are what is currently on my phone (although some of them are only available in local central offices and few residential only at present):

\*47 Call Trace: This is a special number to call to see problem calls. It will trace the last call. There is a charge for the call and the number is only given to the police.

\*48 Call Screening: This will reject up to twelve numbers. Up to twelve numbers are stored and the feature can be activated or deactivated at any time without disturbing the numbers. You can add or delete numbers. Only local numbers can be entered. You can store the last number dialed even if it has Caller ID.

\*50 Long Distance, or Trunk, or Trunks (as used by hotels or larger PBXs). The calling party hears a recorded "The number you have dialed is not accepting calls from you at this time." or not accepting calls from you at this time, followed by a disconnect. Your phone doesn't ring. You can store the last number which called you, even if you don't know what it was. This includes Caller ID blocked calls.

\*61 Distinctive Ringing: This will cause your phone to ring with three short quick rings instead of one long ring. The distinctive ring usually doesn't activate electronic key systems.

The feature has a receive number (local only) capacity. You can store the last number which called you, even if you don't know what it was. This includes Caller ID blocked calls.

\*63 Preferred Call Forwarding: This will call forward only up to twelve phone numbers (local only). The rest of the calls will ring your phone as normal. The feature has a receiver capacity.

\*64 Auto Redial: This will call the last number you called, whether it was busy, answered, or unanswered. It will continue to redial busy other party's phone will ring. It's not fast enough to call back to those answering mass-dialing junk callers. This feature will work with any local call including Caller ID blocked calls, but not cellular or trunk lines.

\*65 Caller ID Block (one call): This will display a "Private Caller" message on Caller ID.

\*66 Auto Return: This will call the last number you called, whether it was busy, answered, or unanswered. It will continue to redial busy other party's phone will ring. It's not fast enough to call back to those answering mass-dialing junk callers. This feature will work with any local call including Caller ID blocked calls, but not cellular or trunk lines.

\*67 Call Screening: This is a special number to call to see problem calls. It will trace the last call. There is a charge for the call and the number is only given to the police.

\*68 Selective Call Acceptance: This is the opposite of Call Screening. Up to twelve local numbers can be stored and they will be the only numbers which will ring your phone. All other numbers, including long distance, cellular, and trunk lines will be rejected with the same message as Call Screening. This can be used to avoid creditors and still talk to that special someone. Combine it with Caller ID or selective call forwarding to play hooky from work.

\*69 Return Call: This will give you the last local number called, and you can redial it by dialing 1. It will give you the last number even if you do not have a Caller ID box. (Great to use if you don't have a box by every phone.) If it was a Caller ID blocked call, a recorded voice will announce, "The last number that called

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\*124 Auto





# AN APPEAL FOR HELP

by Craig Neidorf

January 18-19, 1992 marked the two-year anniversary of my visit from Craig Neidorf has long been over and, for most people involved, life has returned to normal.

Unfortunately things are not quite as simple for me.

After my trial concluded, I went back to school at the University of Missouri, and hit the books hard. I earned a 4.0 (straight A average) that semester, focusing on political science and pre-law courses. I did almost as well the following spring and summer semesters. I graduated on August 2, 1991.

However, my legal bills remained very high. In fact, my parents and I still owe close to \$50,000.

I have always been uncomfortable with the idea of actually making a direct appeal to people to send donations to my defense fund, but over the last year and a half, my idealism about the future has faded and been replaced with reality.

At the end of my trial, my legal fees totaled about \$108,000 and this figure does not include travel expenses in going back and forth to Chicago from St. Louis and Columbia or any other related expenditures that I

had to make during that seven month period.

This figure does not include the nicey-I lost by having to drop most of my classes at the University of Missouri that semester because I could not conveniently afford class during my trial.

This figure does not reflect the pain and suffering that my family and I were put through by a malicious and ignorant prosecutor and other similarly unpleasant people at BellSouth, Illinois Bell, Bellcore, and AT&T.

This figure does not include the traumatic incidents of my suspension from the Zeta Beta Tau Fraternity or the threats of expulsion I received from the Chancellor's office of the University of Missouri.

And finally this figure does not include the additional \$900 I had to spend to finally get my arrest records expunged. That fee could and should have been avoided altogether except, as with the trial, William Cook (the assistant U.S. attorney) opposed my motion for expungement and so several more notices and court appearances were necessary for me to achieve victory.

The number one myth about my legal fees is that they were paid by the Electronic Frontier Foundation. This is complete fiction. Although I appeared to have been somewhat of a spokesperson and "poster-child" for the EFF throughout 1990 and 1991, and despite what you may have read

in the recession has hit home, putting my father out of work and keeping my mother in a job beneath her talents.

It seriously pains me to have to do this, but trust me when I tell you that I've thought about this for a long time. I need your help to get my legal bills paid. I need to be able to live my life without this debt

made by Mitch Kapor personally, but this is separate from the EFF.

EFF did pay for some legal motions to be filed in my case regarding the First Amendment, but since these motions were denied, they impacted only slightly on the outcome of my trial. The most beneficial outcome of the EFF's involvement with my case was the general increase in awareness in the community at large to the issues my case presented.

More than a year has passed since the day my trial ended. My entire life savings that I had stashed away in my college and the school was needed as a downpayment on my legal fees and my parents of course had to give up most of their savings as well. A payment plan was arranged over what looks to be a ten year period. We had no choice but to accept that these were the cards life had dealt us and after all things could be much worse. I have my health and my freedom (such as it is) and these things are worth more than money.

However, I am a young person starting out in life. I have applied to several law schools across the country, both public and private. Unfortunately, after reviewing my financial options, I have discovered that the expense of a legal education may now place it way far beyond my means.

Like a very large number of Americans, I appear to have been somewhat of a grant, and scholarships available for an aspiring law student.

Please don't forget to write my name in the memo section of the check or enclose a letter explaining what the check is for. If you don't do that, KMZ will not credit my account for the amount of the check.

I'd also appreciate any tips or leads on potential sources of financial aid.

You can reach Craig through 26000. Donations, anonymous or otherwise, can also be made through 26000 Neidorf Defense Fund, P.O. Box 99, Middle Island, NY 11953.

begging over my head. There are thousands of people who had \$200. If each person only contributed \$20 it could wipe out this debt entirely. You see, helping me out is not beyond the reach of our community if we all work together. Consider it an investment in your future, because what happened to me can happen to anyone and with a legal education I'll be back to return the favor.

If you find that you can afford to help me, you have my most sincere thanks and appreciation. I know a lot of you are in tight financial situations like me and can sympathize with what I am going through. If you are unable to help me because you are having problems of your own then you have my sympathy as well.

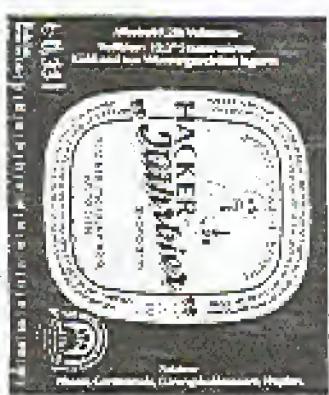
Please make checks or money orders payable to: Katten, Muchin, & Zavis, Send them to: Sheldon Zemner Katten, Muchin, & Zavis 525 West Monroe Street Suite 1600 Chicago, Illinois 60666-3693.

Please don't forget to write my name in the memo section of the check or enclose a letter explaining what the check is for. If you don't do that, KMZ will not credit my account for the amount of the check.

I'd also appreciate any tips or leads on potential sources of financial aid.

You can reach Craig through 26000. Donations, anonymous or otherwise, can also be made through 26000 Neidorf Defense Fund, P.O. Box 99, Middle Island, NY 11953.

# Hacker Beer



Common in Germany and Austria, we're told this could be translated as "Hacker Nutrient Beer."

## What L.O.D. really stands for

### THE LEGION OF DECENCY

Shortly after the close of the last war, Hollywood producers came out with a new "type" of pictures. This was comprised largely of pictures depicting (1) "the American girl"; (2) gangsters and their henchmen. Not only was the producer idea of the "American girl" repulsive to anyone with a sense of decency, but the quality of the pictures produced declined with this moral laxity. The motion picture machine, like the converted garbage, did not produce any "enlightening thoughts"; either; and the general result of the two theories was a poor level in quality for the average pictures.

### LEGION OF DECENCY ORGANIZED

The Legion of Decency was finally organized effectively and did a great deal of good. Hollywood magazines, confronted not with substantial protests, but with an organization composed of serious numbers, realized their mistakes, and produced pictures of the type of "Gidget", Mr. Chip", and "Wickedness". Pictures were distributed and presented to the people through the other fine medium that the motion picture is. The quality of Hollywood pictures began to climb steadily.

### ANOTHER THE LEGION

The Legion of Decency deserves our support. Even if we dismissed the serious moral question, we should support such an organization for the sake of our own entertainment. I think, in general, pictures do not edify; but I never claim anything. The argument, therefore, and points presented in motion pictures must be morally good if not, who can say? I try to enjoy the pictures; for that which is good is true; and only that which is true is beautiful.

From a Catholic school's newspaper in the 1950's.

## ANALYSIS: Gulf War Printer Virus

by Anonymous

I work closely with the technical aspects of the operating system on IBM mainframes so I followed with some interest the accounts of the "Gulf War Virus." (News organizations in January reported the story of a computer virus introduced into an Iraqi air defense system via a printer.) My first reaction was one of amazement that the National Security Agency had pulled off such a stunt. But when I thought about it further it began to seem less and less reasonable and more and more likely that the whole thing was a piece of "disinformation."

There are three ways that the printer might have been attached to the mainframe: (1) Channel-attached. If it was channel-attached then there is virtually no way that it could initiate an action that would cause the modification of software on the mainframe. A printer is an output device. It can only tell the computer stuff like, "I finished printing a line." "I have a line," etc. It does this through very simple codes. (2) Attached to a network or (3) attached remotely. (2) and (3) are similar in terms of requirements. If it were attached in one of these two ways then it is at least conceivable that, with an enormous effort, it could transform itself from a print-server into something capable of initiating input into the mainframe. This would involve a lot of "hacking the system." Once it had transformed itself it would have to fool the mainframe again into considering it a legitimate user who had the proper security to either initiate batch jobs or work interactively. Once it had done that it would have to know the name of the library where the CRT software resided and the name of the module that controlled the CRT's. It would have to convince the security system that it should be allowed to access this library. Once it had done that it could then make the very subtle change

indicated in the article that would only go into effect under special circumstances. (A subtle change like that would be more difficult than a gross change that would, for example, simply bring down the entire system.) And all of this incredible coding would, presumably, be done in the 1K or 2K that is available in a ROM chip.

Now consider what I think is more likely: First you have to ask yourself, "Why would the NSA tell this story? If they could really do something neat like this, why wouldn't they keep it secret to use again in the future?" I can only imagine two reasons that they might tell such a story: (1) There is an Iraqi computer insider who they are trying to protect (the guy who really did the deed) by diverting attention. (2) The software (like most of the Iraqi equipment) probably came from a Western country. The company that creates the CFT software might well have left a "logic bomb" in the software in case Saddam pulled a stunt like he pulled. The company probably does not want it to be known that they leave such bombs in their software, so the NSA wants, again, to protect them and divert attention.

I think that the disinformation theory gains some credibility from the information that is presented in the stories that are circulating. We are told almost nothing about the technical details but we are told everything about the printer. How it came in, what it came from, the approximate time frame, everything but the serial number. I suspect that when the virus read the story and opened up the printer there will probably be color-coded chips there stamped "NSA".

As it maintains security people don't have enough to worry about, I imagine that for the next 20 years they will have to answer questions about the possibility of introducing a virus into the mainframe from the least likely source: a printer.







# RESPECT YOUR LABEL

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by PW

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